

Unit Project

The Package Design Contest

The Worldwide Sporting Company (WSC) wants a new set of package designs for their table-tennis balls (Ping-Pong balls). The table-tennis balls are about 3.8 centimeters in diameter. WSC has decided to offer a scholarship to the students or groups of students who convince the company to use their design.

- The board of directors wants a small package, a medium package, and a large package of table-tennis balls.
- The president of the company wants the cost of the packages to be considered.
- The marketing division wants the packages to be appealing to customers, to stack easily, and to look good on store shelves.

Part 1: Design a Contest Entry

You are to prepare an entry for the package design contest. Your task is to design three different packages for table-tennis balls. Include the following things in your contest entry:

1. A description of the shape or shapes of the packages you have designed and an explanation for why you selected these shapes.
2. Nets for each of your packages that, when they are cut out, folded, and taped together, will make models of your packages. Use centimeter grid paper to make your patterns.
3. Calculations of how much each of your package designs will cost to construct. The packaging material costs \$0.005 per square centimeter.

Part 2: Write a Report

You will submit your designs and a written proposal to WSC. Your written proposal should try to convince WSC that your designs are the ones they should use.

4. An explanation of how you have addressed WSC's three concerns (listed above).

Remember, you are trying to persuade WSC that your designs are the best and that they should select your work. Your report is to be written to the company officials. You need to think about the presentation of your written proposal. It should be neat (maybe even typed!), well organized, and easy to read so that the company officials can follow your work and ideas easily.

